



23490 Connecticut Street
Hayward, California 94545
510.773-9137-510-782-8584 Fax
Jason Guilbransen
Project Manager

November 15, 2004

Mr. Todd Miller
Malcolm Pirnie, Inc.
2000 Powell Street, Suite 1180
Emeryville, CA 94608

ORIGINAL

**RE: System Operation Status Report
3rd Quarter July, August, September 2004
Jefferson Car Wash Site
Groundwater Extraction and Treatment System
3080 Jefferson Street, Napa, California**

Dear Mr. Miller;

DECON Environmental Services, Inc. (DECON) has prepared this Status Report to document the quarterly activities at the above referenced site. The Jefferson Car Wash groundwater extraction and treatment system operates by pumping groundwater from two-extraction wells (EW-2, EW-3). The water is conveyed to the treatment compound where the water extracted from each well combines into one pipe and flows through a 10 micron bag filter. The raw water then flows through two granular activated carbon (GAC) units. The treated water then proceeds through a flow totalizer/meter and is discharged into the Napa Sanitary sewer system. The treatment system contains a piping manifold that allows the three carbon units to be utilized in any lead-lag configuration. Currently GAC vessel #1 is the lead and GAC vessel #2 is the lag. No change to the configuration occurred this quarter.

The purpose of this treatment system is to remove TPH-gasoline and MTBE contaminants from the groundwater. Monthly groundwater sample analyses indicate the system is meeting its intended purpose. The monthly sample analysis indicates the presence of TPH-gasoline and MTBE in the raw water from each extraction well. Analytical results from the treated effluent are consistently non-detect for these compounds.

The attached table summarizes the analytical results for each month at each sample location. There are five sample locations: (1) EW-2, (2) EW-3, (3) Combined Influent, (4) Lag GAC Vessel Inlet, (5) Effluent/Discharge point.

July 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm. No maintenance or repair activities were performed this month.

The approximate contaminant mass removed is as follows:
24.61 grams of TPH-gasoline was removed from 209,250 gallons of treated water.
21.39 grams of MTBE was removed from 209,250 gallons of treated water.

August 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm. No maintenance or repair activities were performed this month.

*Electrical service to the site was interrupted for an unknown duration and the flow totals for the month were very low. Only the required sample from the discharge point was collected, therefore no mass removal calculations could be determined.

Total volume of water treated during August 2004 was 7,540 gallons.

September 2004 Site Visit

The groundwater sampled from each well was clear and sediment free. The pressure gauges before and after the bag filter were the same (<1 psi), indicating no sediment loading on the filter. The flow rates at each wellhead were appropriate, EW-2 ~3.5 gpm, EW-3 ~5 gpm. No maintenance or repair activities were performed this month.

The estimated contaminant mass removed is as follows:
15.99 grams of TPH-gasoline was removed from 343,980 gallons of treated water.
29.64 grams of MTBE was removed from 343,980 gallons of treated water.

Based on the influent sample analysis it is calculated that the GAC bed life of the lead vessel should be six to eight months at current operating conditions.

System Observations/Recommendations

The September sampling event occurred during rain conditions and the containment sump pump was observed to be operating properly.

The lead GAC vessel (#1) and the lag GAC vessel (#2) appear to be operating properly, as no break-thru of contaminants at the lead vessel has occurred.

A total of 560,770 gallons of groundwater were treated during the 3rd quarter of 2004. A total of 40.60 grams of TPH-gas was removed, and a total of 51.03 grams of MTBE was removed for this quarter.

Please feel free to contact me with any questions regarding this project.

Sincerely,
DECON Environmental Services, Inc.

Jason Gulbransen

Jason Gulbransen
Project Manager

Third Quarter July, August, September 2004
Summary of Analytical Results
Jefferson Car Wash
Groundwater Treatment System

Jul-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	65	26	34	<25	<25
BTEX	ug/l	<1	<1	<1	<1	<1
MTBE	ug/l	230	32	90	BDL	BDL
TPH-d	ug/l	<50	<50	BDL	<50	<50
Total Lead	mg/l	<0.015	<0.015	<0.015	<0.015	<0.015
Total Flow	gallons	154,270	844,010	N/A	N/A	924,500

BDL: Below Detection Limits

Aug-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	NS	NS	NS	NS	<25
BTEX	ug/l	NS	NS	NS	NS	<1
MTBE	ug/l	NS	NS	NS	NS	<1
TPH-d	ug/l	NS	NS	NS	NS	<50
Total Lead	mg/l	NS	NS	NS	NS	<0.015
Total Flow	gallons	157,540	848,280	N/A	N/A	931,750

BDL: Below Detection Limits

NS: Not Sampled due to low monthly flow

Sep-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge
TPH-g	ug/l	93	<25	38	<25	<25
BTEX	ug/l	<1	<1	<1	<1	<1
MTBE	ug/l	87	13	36	<1	<1
TPH-d	ug/l	NR	NR	NR	NR	<50
Total Lead	mg/l	NR	NR	NR	NR	<0.015
Total Flow	gallons	202,950	1,146,850	N/A	N/A	1,248,500

BDL: Below Detection Limits

NR: Not Required

Jul-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	65	26	34	<25	<25	
MTBE	ug/l	94	17	40	BDL	BDL	
Total Flow	gallons liters (3.78533)	27,200 102,961	182,050 689,119	N/A	N/A	209,250 792,080	
Mass							
TPH-g	grams	6.69	17.92				24.61
MTBE	grams	9.68	11.72				21.39

Aug-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	0	0		<25	<25	
MTBE	ug/l	0	0		BDL	BDL	
Total Flow	gallons liters (3.78533)	3,270 12,378	4,270 16,163	N/A	N/A	7,540 28,541	
Mass							
*Extraction wells not sampled due to low monthly flow							
TPH-g	grams	0.00	0.00				0.00
MTBE	grams	0.00	0.00				0.00

Sep-04		EW-2	EW-3	Combined Inlet	Lag V Inlet	Discharge	Total Mass
TPH-g	ug/l	93	0	38	<25	<25	
MTBE	ug/l	87	13	36	<1	<1	
Total Flow	gallons liters (3.78533)	45,410 171,892	298,570 1,130,186	N/A	N/A	343,980 1,302,078	
Mass							
TPH-g	grams	15.99	0.00				15.99
MTBE	grams	14.95	14.69				29.64

Total TPH-g Mass Removed for 3rd Quarter	40.60g
Total MTBE Mass Removed for 3rd Quarter	51.03g